EVERON UPS

XPC series 6-20KVA online UPS User Manual

Shenzhen JFY Tech Co.,Ltd

Thank you for using JFY product！

Please observe the warnings on the machine and manual strictly and properly keep the manual. Do not operate the UPS before reading through all safety notes and operating instructions.

Safety notes

Operating safety

1. Read safety notes carefully and thoroughly before operation, ensure the proper usage and save this manual properly.
2. Pay attention to alarm table on the UPS and operate following it.
3. Avoid installing the UPS near water or in excessive humidity.
4. Avoid installing the UPS where it would be exposed to direct sunlight or nearby heater.
5. The UPS must be stored in a location with good ventilation and ensure enough space on each side for ventilation.
6. No liquid or spray detergent to clean the UPS.
7. Use powder fire extinguisher in the event of fire occurring in the vicinity. Liquid fire extinguishing agents may causes electric shock.

Electric safety

1. UPS has provided earthed terminal, in the final installed system configuration, equipotential earth bonding to the external UPS battery cabinets, connect the earth before connecting to the building wiring terminal.
2. Before moving or re-wiring the UPS, please disconnect the mains source and make sure the UPS is completely shut down. If not, the output terminal may be electrically live that may causes electric shock.
3. Please use fitting and accessories appointed by JFY.
4. To meet the requirement of EMC, the length of output line should be less than 40m distance.

Battery safety

1. Battery should be replaced periodically to ensure normal UPS operation and adequate autonomy time because of high ambient temperature shortening the battery lifetimes.
2. Battery should be managed by professional personnel.
3. Do use the same type and same number of batteries in replacement.
4. In case of electrical shock and high short circuit current, please observe the precaution as follows:
    A. Remove watches, rings, or other metal object from the hands;
    B. Use tools with insulated handles;
    C. Wear rubber gloves and boots;
    D. Do not lay tools or metal parts on top of batteries;
    E. Disconnect the load before operate the terminal of battery.
5. Do not attempt to dispose of batteries by burning them. This could cause battery explosion. The batteries must be rightly deposed according to local

regulation.

6. Do not open or destroy batteries. Escaping electrolyte can cause injury to the skin and eyes. It may be toxic. If electrolyte comes into contacting with the skin, wash the affected area with plenty of clean water immediately and go to the hospital for a check.
7. Do not make the positive and negative terminals of the battery short circuit; otherwise it may cause electric shock or fire.

Maintenance

The operating environment and storage method are two key factors affecting the lifetime and reliability of the UPS. Hence, it is advisable not using the device in the following environments:

1 Where the temperature and relative humidity are outside the specifications (temperature: 0-40℃, relative humidity: 20-90%).

2 Where vibrations or shocks are existing.

3 Dust, corrosive agents or salts or inflammable gas are present.

If the UPS will remain idle for a long period, it must be stored in a dry environment. The storage temperature should range from -25-55℃ (without battery). Before power on the UPS, set the ambient temperature over 0℃ and keep more than 2 hours.

Safety notes

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1 Introduction

This series UPS is a advanced on-line sine wave uninterruptible power system with parallel redundancy function and the maintenance switch is optional. Provide a high quality AC power for your precision equipment with a wide range of application. It's ideally suited for computer equipment, communication system, industry automatic control equipment. Because of the on-line design, the input voltage always would be adjusted and filtered differing from backup UPS. When power outage, battery will supply the load without transfer time. When over load or fault of inverter，UPS will turn to bypass mode and supplied by the utility power. At the time of eliminating over load，UPS will automatically turn to supplied by the inverter.

This manual is suitable for XPC series produces as follows:

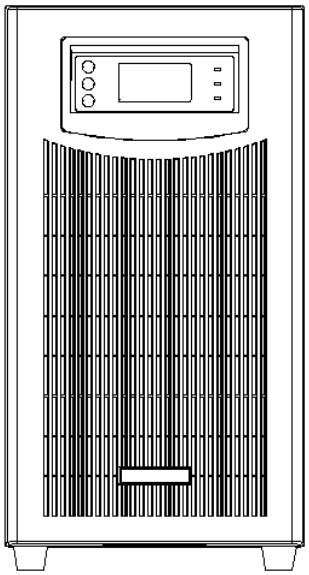
- 1106：inner battery normal model
- 1106L：external battery long backup model
- 1110：inner battery normal model
- 1110L：external battery long backup model
- 3110L：3 phase in, 1phase out, external battery long backup model
- 3115L：3 phase in, 1phase out, external battery long backup model
- 3120L：3 phase in, 1phase out, external battery long backup model。

Meanwhile each model can be divided into normal and professional version for user choice. Professional version is added with EPO switch and manual maintenance switch, please check **2.8, 2.9** section。

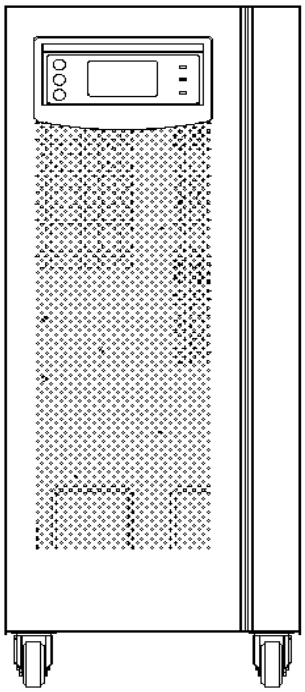
1.1 Sign explain

Sign	Meaning
	Attention
	Danger
	AC
	DC
	Equipment grounding conductor
	Grounding (Earth)
	Recycling
	Do not dispose of unsorted waste
	Over load
	Battery
	ON/OFF button

1.2 Front view

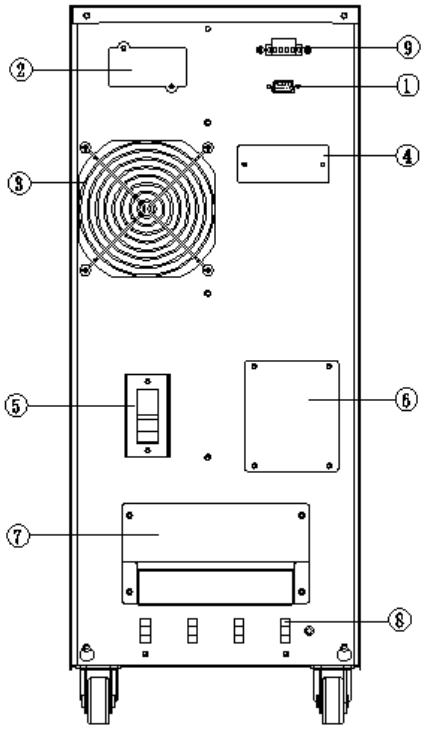


1106L/ 1110L

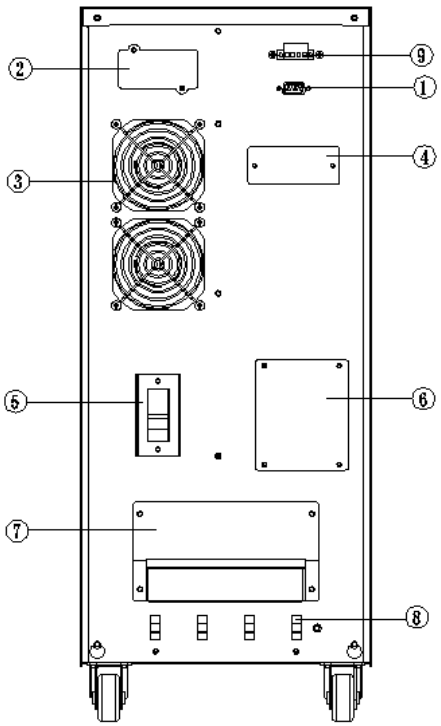


1106/ 1110/ 3110L/ 3115L/ 3120L

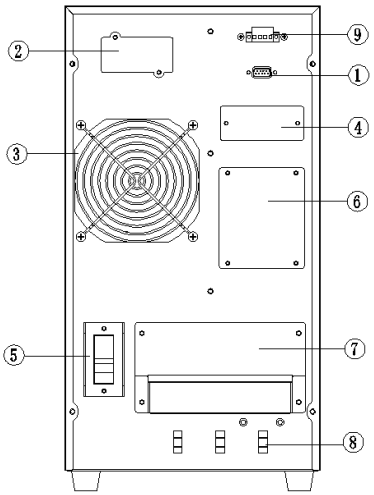
1.3 Back view



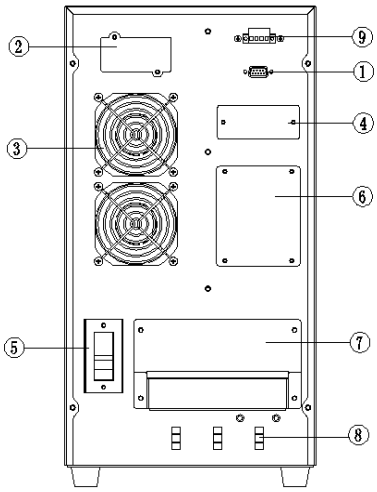
1106



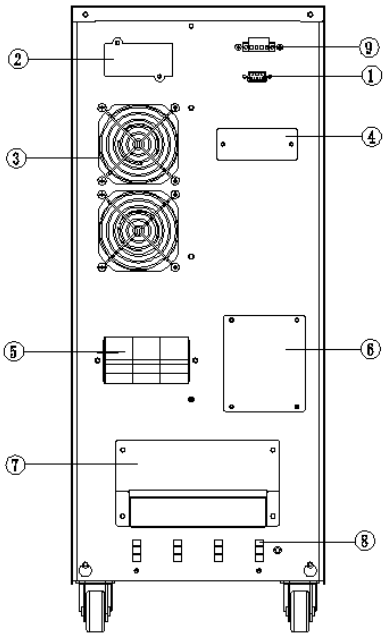
1110



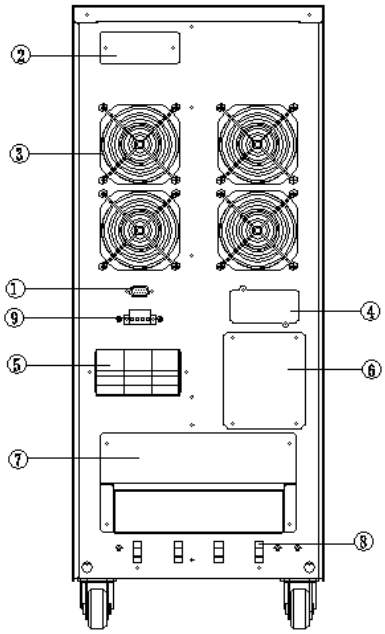
1106L



1110L



3310L



3315L/ 3320L

① RS232 communication port

② Intelligent slot

③ Direct current fan

④ Parallel port covered (optional)

⑤ Input circuit breaker

⑥ Maintenance switch covered (only available for professional model)

⑦ Input/Output terminal covered

⑧ Cable shelf

⑨ EPO (only available for professional model)

Notice: the views are available for the normal and professional model.

1.4 Technical data

Model	1106	1106L	1110	1110L	3110L	3115L	3120L
Size(W×L×H) mm	248× 500× 616	240× 500× 460	248× 500× 616	240× 500× 460	248× 500× 616		
Weight（Kg）	57	20	59	21	27	35	35
Power							
Rated capacity	6KVA 4.8KW	6KVA 4.8KW	10KVA 8KW	10KVA 8KW	10KVA 8KW	15KVA 12KW	20KVA 16KW
Input							
Voltage Range	120VAC～275VAC						
*Max Current	33A	37A	55A	59A		86A	112A
Frequency	46Hz～54Hz						
Power factor	0.99				0.95		
Output							
Rated voltage	220VAC×（1±1%）						
Current	27A		45A			68A	91A
Frequency	46Hz~54Hz(On line mode，follow utility power) 50Hz×(1±0.1%)(Battery mode)						
Power factor	0.8						
Over load ability	105%～125%, After 1 minutes turn to bypass mode, After 30 minutes turn off output; 125%～135%, After 30s turn to bypass mode. After 1 minutes turn off output; >135%, After 0.1s turn to bypass mode						
Peak Factor	3:1						
THD	THD<2% (linear load)						
Battery（High ambient temperature and deep discharge will shorten the battery life）							
Backup time	4 minutes (full load)	Depend on external battery	4 minutes (full load)	Depend on external battery			
Charge time	7 hours charge to 90%	Depend on external battery	7 hours charge to 90%	Depend on external battery			

* Max current is when the UPS working with 187V DC input, full load output, full load charge.

Model	1106	1110	1110L	3110L	3115L	3120L
EMC						
ESD	IEC61000-4-2 Level 4					
RS	IEC61000-4-3 Level 3					
EFT	IEC61000-4-4 Level 4					
Surge	IEC61000-4-5 Level 4					
Operation temperature	0℃-40℃					
Storage temperature	-25℃-55℃					
Humidity	20%-90% (non condensation)					
Altitude	<1000m					

Height (m)	1000	1500	2000	2500	3000	3500	4000	4500	5000
Capacity rate	100%	95%	91%	86%	82%	78%	74%	70%	67%

⚠ Attention: when UPS worked in the height over 1000m, the output rated power must be decrease progressively referring to the above table.

2. Installation

⚠ Danger: Be careful when installation before cutting off AC power switch or cutting of the battery input for long backup model.

⚠ Attention: >> Installation and wiring must be performed in accordance with the local electric laws/regulations and execute by professional personnel.

>> Advise to be used on ground

2.1 Unpacking and check

Accessory： a. One user manual b. Terminal

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged during transportation. Do not turn on the unit and notify the carrier and dealer immediately if there is any damage or lacking of some parts.

Recycling: please save the original package for future use.

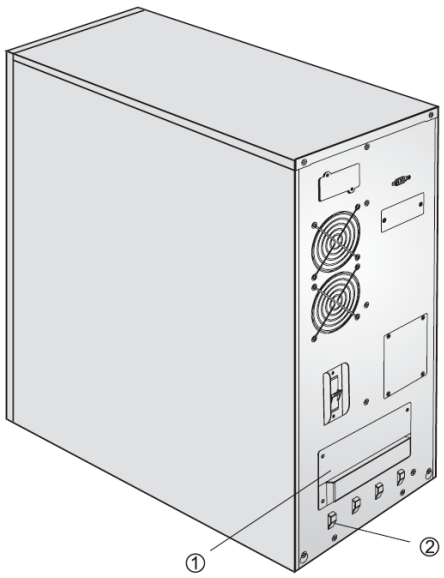
2.2 Cable list

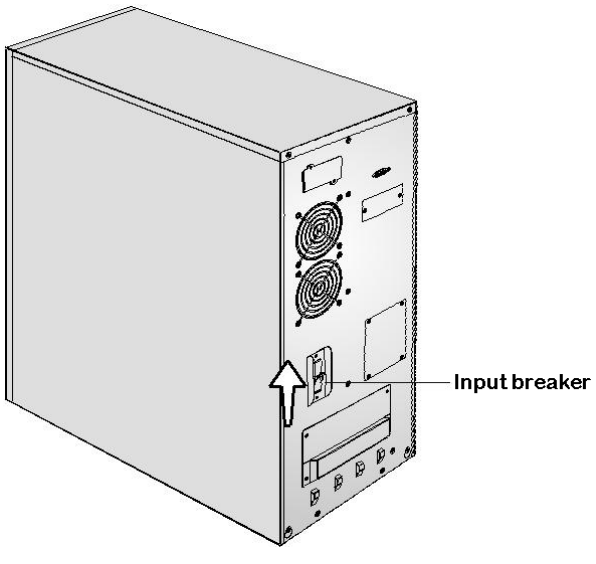
⚠ Attention: Cable's diameter and wire's CSA depend on UPS rated power.

In the following chart, L means L1, L2, L3 for the 3 phase model.

MODEL		1106	1106L	1110	1110L	3110L	3115L	3120L
IN PUT	G	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	N	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	L	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
BATTERY	+	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	-	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	G	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
OUT PUT	L	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	N	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)
	G	10AWG ($6mm^2$)	10AWG ($6mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	8AWG ($10mm^2$)	6AWG ($25mm^2$)	6AWG ($25mm^2$)

2.3 UPS Connecting



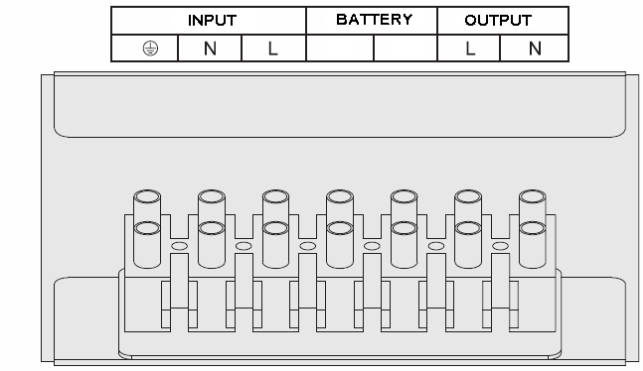


⚠ Danger: Ensure the power cable with circuit breaker protection, and pay attention to the capacity, if not, may destroy AC switch. (MAX input current refer to **1.4 technical data**)

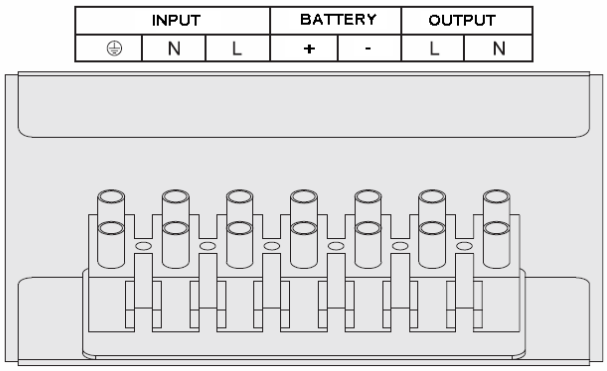
- Please refer to **2.2 cable list** to choose the fit input & output cable
- Remove the cover plate of terminal tier①
- Connect output cable to the output terminal
- Connect input cable to the input terminal
- Connect battery to the battery terminal (only for long-backup model)
- Use tie across truss rope shelf②
- Use tie truss input, output, battery input cable
- Put back the cover plate①
- Make sure connection be correct，then switch on AC power，Put UPS input switch “ON”，then UPS work normally

⚠ Danger：Please ensure the fastness of connection.

Input & Output terminal for single phase model:

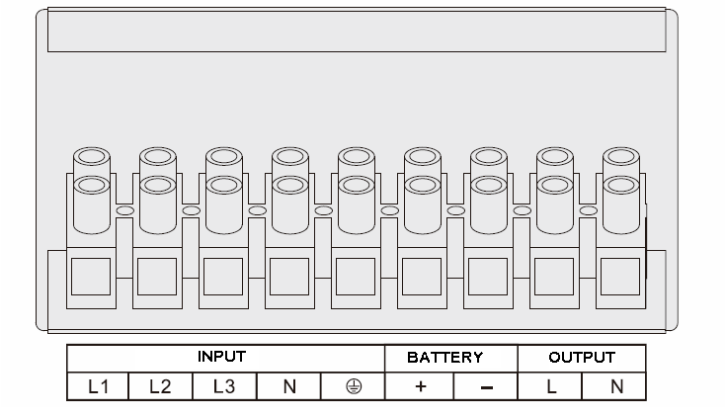


1106/1110



1106L/ 1110L

Input & Output terminal for three phase model:



3110L/ 3115L/ 3120L

2.4 Installation for long backup model

The long backup model (except for special model with 20pcs battery) with battery voltage 192VDC can be connected with 16sets battery, battery can be paralleled with many groups; Special model with battery voltage 240VDC can be connected with 20sets battery, battery can be paralleled with many groups. In case of electric shock, please observe strictly the following procedure:

1) Turn off battery switch "OFF", with suitable series battery.
2) Choose the fit battery cable to connect battery and UPS (refer to **2.2 Cable list**). Between UPS and battery must have a DC breaker, whose voltage and current must be in the range of UPS as follows:

16 pcs battery 192VDC

MODEL	1106(L)	1110(L)	3110L	3115L	3120L
Bat voltage	192VDC	192VDC	192VDC	192VDC	192VDC
Bat current	34A. max	56A. max	56A. max	83A.max	112A. max

20 pcs battery 240VDC

MODEL	1106(L)	1110(L)	3110L	3115L	3120L
Bat voltage	240VDC	240VDC	240VDC	240VDC	240VDC
Bat current	27A. max	45A. max	45A. max	68A. max	91A. max

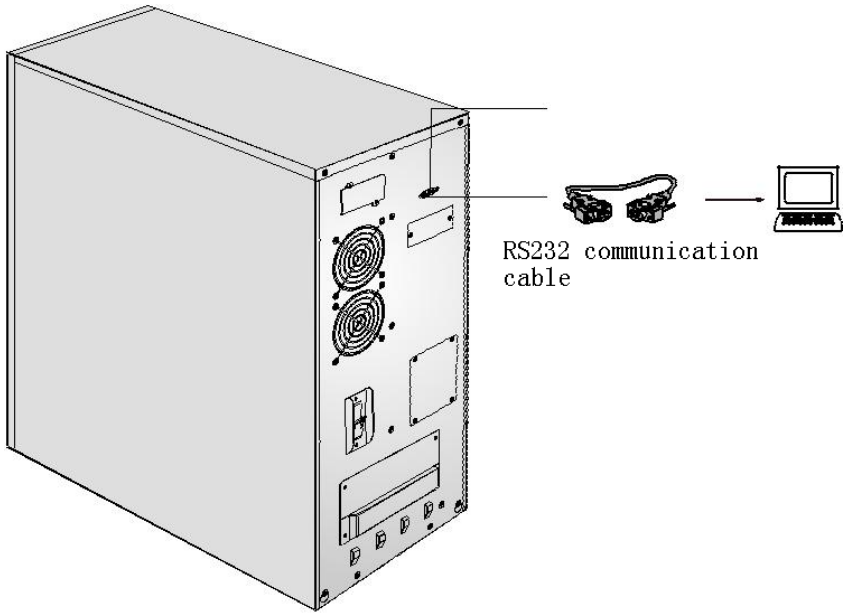
3) Before connecting to the UPS, Ensure no load connected. After connection turn on battery switch "ON", switch on AC, the UPS begin to charge for battery.

⚠ Danger: Do not connect the cable to the UPS first. Otherwise, it maybe causes the hazard of electric shock.

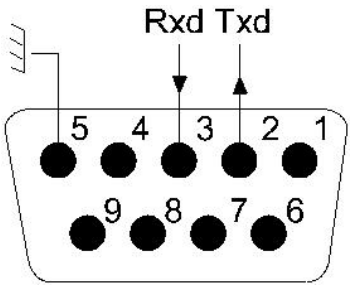
Attention: the battery ground with logo is on the right side of main case terminal tier.

2.5 Connect to the RS232 communication port

- RS232 communication port: connect the UPS and the monitor
- The RS232 communication cable conncet to the serial port of the computer
- The RS232 communication cable conncet to the RS232 communication port of UPS.



The DIN configuration of the RS232 interface port on UPS is as following：



2.6 Parallel card（Optional）

- **Redundancy ntroduce**

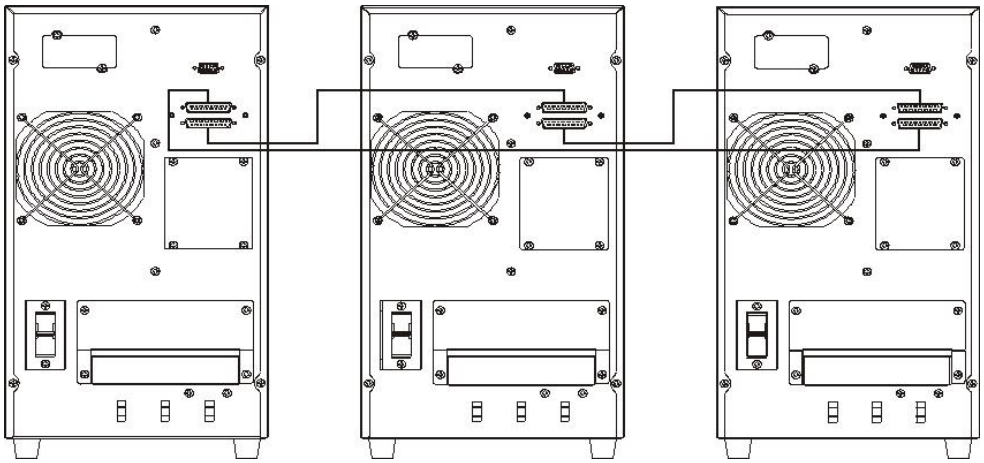
N+X is the now dependable power supply structure. N is indicate the least number of UPS all the load need; X is indicate the redundancy number of UPS that can be suppoted by the system. More bigger of X, more dependable of the system. N+X is the best solution for the high dependable situation. Just with parallel card and data line, it can be paralleled with maximum 3 UPS.

- **Parallel installation**

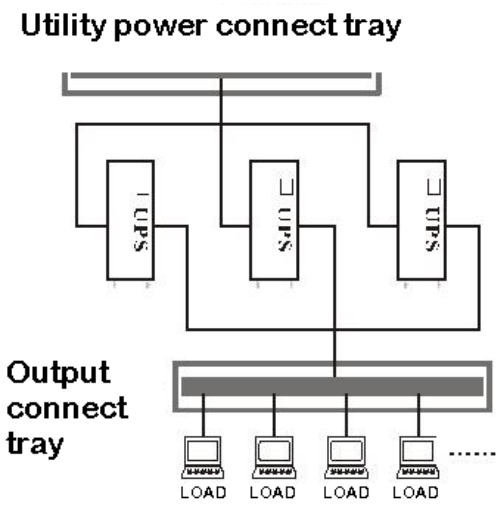
Parallel function is optional. You can buy parallel fittings by yourself (including parallel card and data line) . customer service staff will install to ups, The max number of parallel is 3, Parallel UPS must have independent battery.

- **Remove the cover plate of parallel , install data line**

1) Parallel card is between of ups`s communication port，with parallel card，use the data Line successively connection



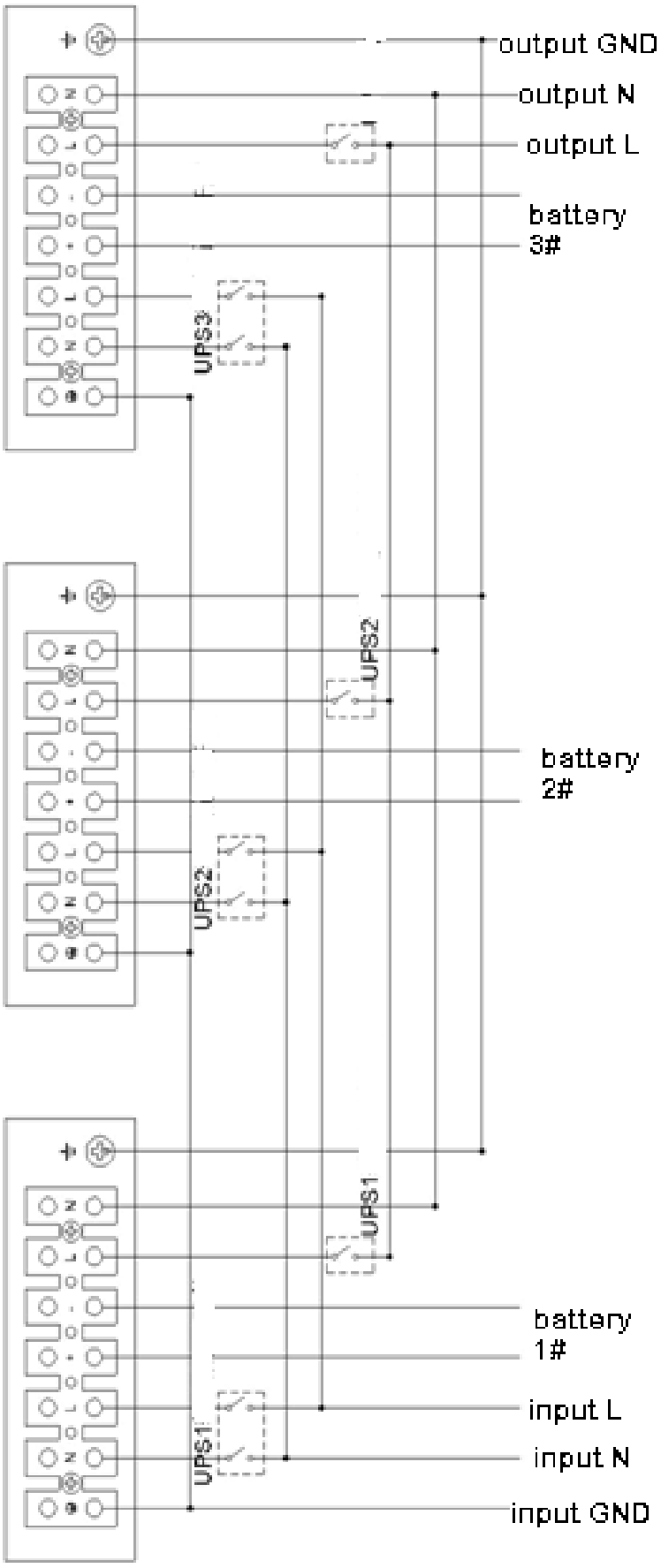
2) All of UPS output cable connect to a connection tray, Then use the connection tray to load



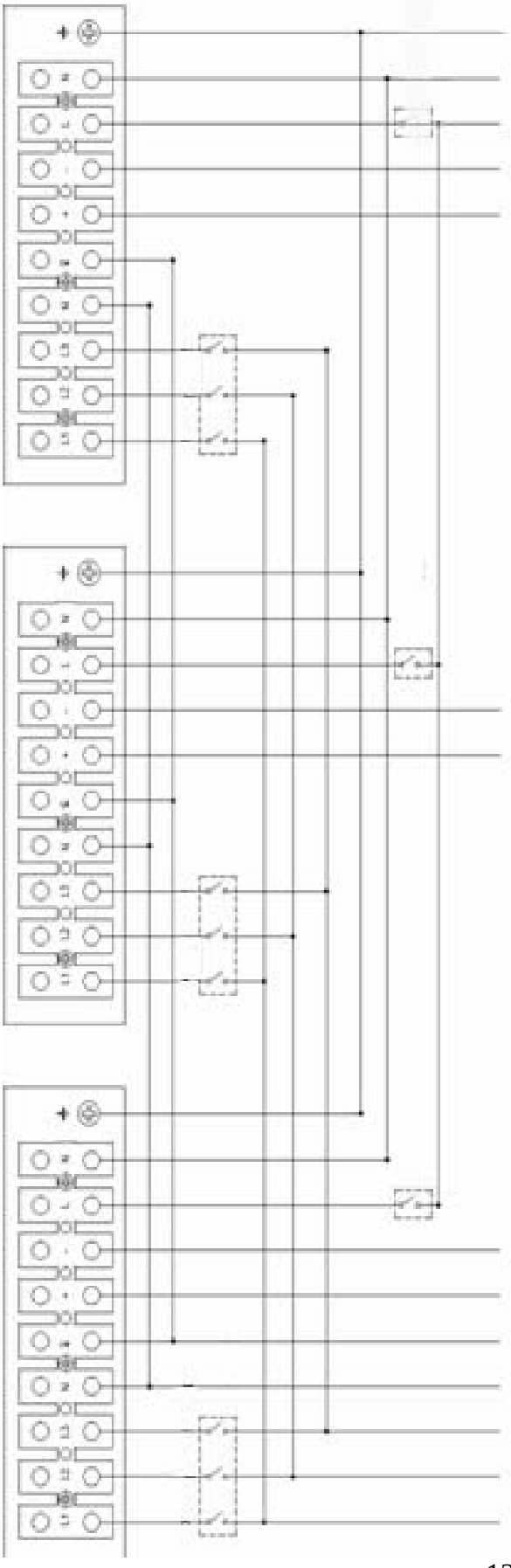
⚠ Attention: Output cable require:

If the distance between ups to load less then 20m, require every UPS output cable length disparity under 20%; If the distance between ups to load over then 20m, require every UPS output cable length disparity under 10%.

3) Parallel UPS terminal tier input, output connection, as under picture, input, output cable follow single UPS match cable require.



1106/1106L/1110/1110L


Ground
Output
Battery3#
Battery 2#
Battery 1#
Input GND
Input N
Input L3 phase
Input L2 phase
Input L1 phase

4) operation explain

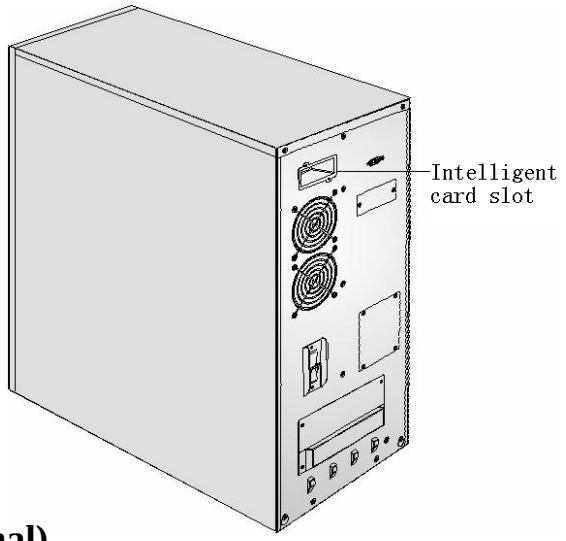
- General operation must follow the one of single ups
- Parallel UPS with AC turn on: switch on AC, only press anyone of ups, the other UPS will turn on at the same time, Then UPS turn to bypass model; Battery mode turn on: Firstly short press every ups on/off button, UPS start building assist power supply, Then long press anyone of ups, The other UPS will turn on at the same time, all ups will work on battery mode.
- Parallel ups turn off: press and hold on/off button of anyone ups more than 4S (the buzzer will beep twice), then parallel ups shut down; press and hold on/off button of anyone ups button more than 1S, less than 4S (the buzzer will beep twice), then single ups shut down.

⚠ Attention: long press is more than 1s, short press is less than 0.5S.

2.7 Installation of the intelligent card

You don't need to stop the UPS during the installation of communication card.

1) Remove the cover plate of slot
2) Insert the intelligent card into the slot
3) Secure the intelligent card with two screws.



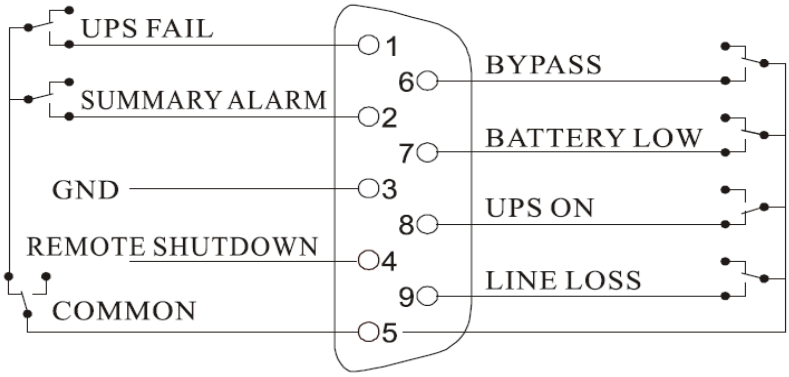
- **SNMP card (Optional)**

Be located of back panel intelligent card slot, Supply the SNMP allow data

- **AS400 card (Optional)**

Only need Insert AS400 (Optional) card into the intelligent card slot, Immediately realize use AS400 system monitoring UPS, manage the power supply. PIN explain:

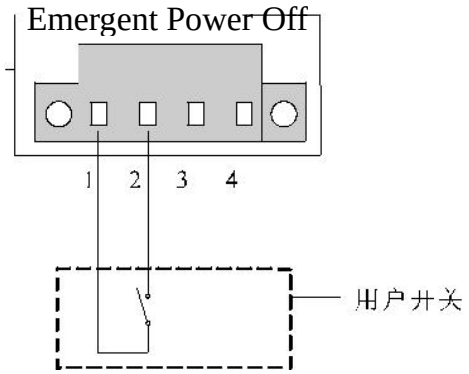
PIN	Meaning
PIN1	Conduction: UPS breakdown
PIN2	Conduction: warning
PIN3	Ground connection (Ground)
PIN4	Remote shut down
PIN5	Public point none conduction: UPS work
PIN6	Conduction: bypass action
PIN7	Conduction: battery low voltage
PIN8	Conduction: UPS Work none conduction: bypass work
PIN9	Conduction: AC cut off



2.8 EPO

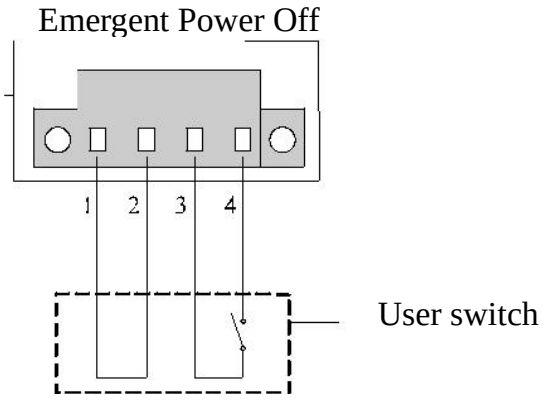
EPO (Emergent Power Off) is located of UPS back panel, green terminal, Use EPO function shut down ups with Emergent circumstance, Two ways connection:

- Connect 1



1-2 conduction, UPS execute shut down
3-4 free

- Connect 2

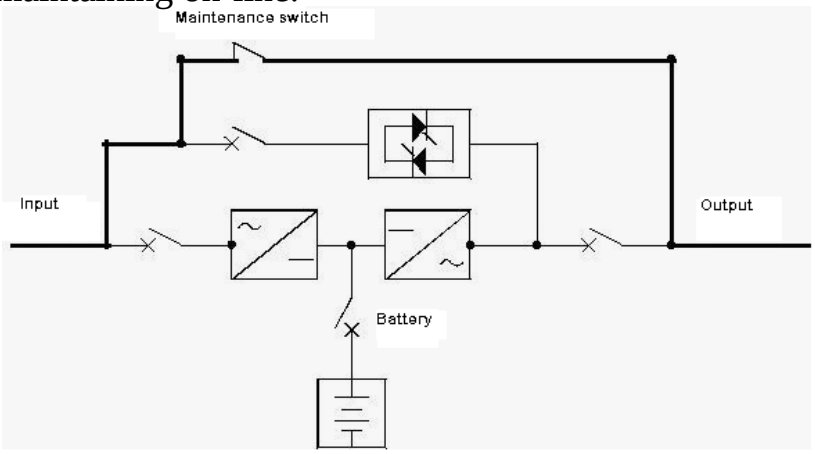


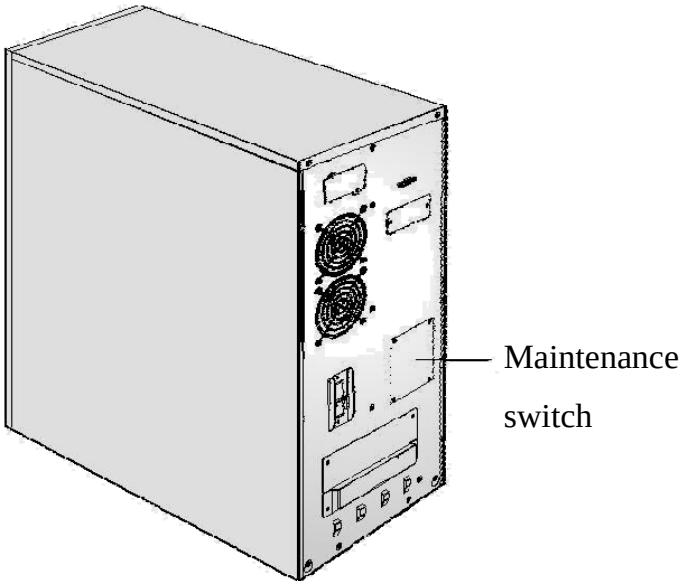
1-2 with lead connect

3-4 if switch off，UPS execute shut down。

2.9 **Maintenance switch**

The UPS can be maintained on-line with maintenance switch. No matter in AC model, battery model or bypass model, electric exist inside of UPS. But with Maintenance switch, UPS can be separated from utility power supply and ensure the safety of maintaining on-line.





2.10 Dust-proof net (Optional)

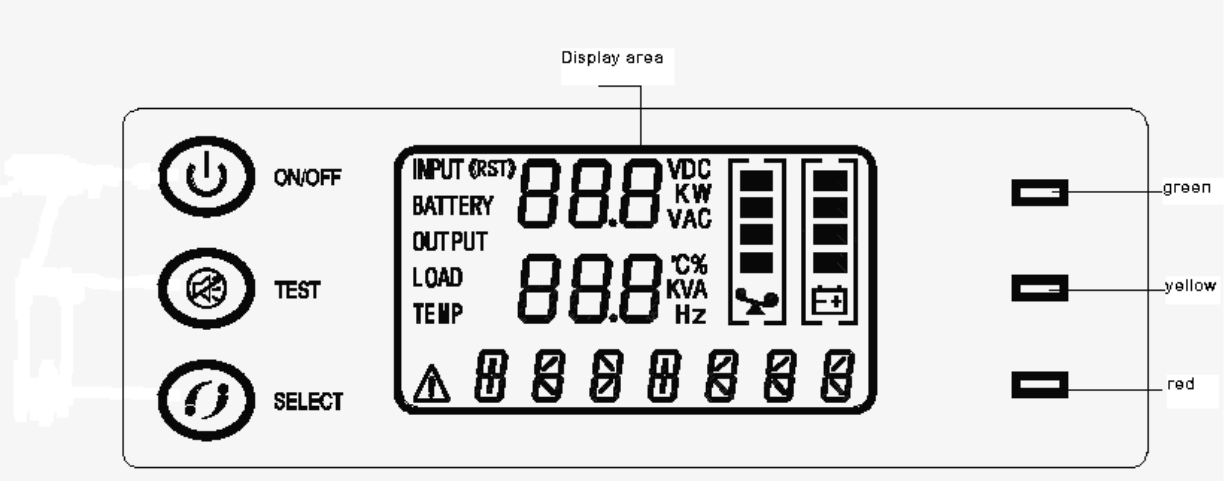
Fully protect the UPS from the dust going inside, it's necessary in much dust and smoke circumstance. The dust-proof net is arranged in the inner of the front panel. Specific installation steps please check the installation manual of dust-proof net.

2.11 Isolation transformation box (Optional)

Isolation transformation with the properties of filter out clutter & the current balance, can protect the load from the effect of other devices. And output isolation transformation can be optional. Specific installation steps please check the installation manual of Isolation transformation.

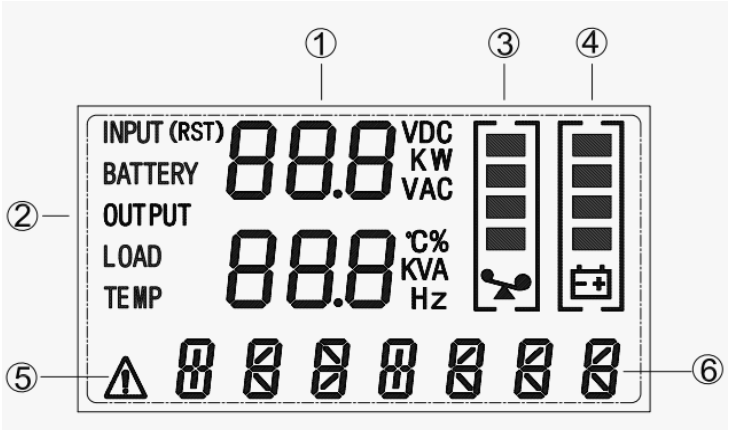
3 Control Panel

3.1 Function instruction



Part	Function
ON/OFF button	➢ Press and hold the button more than 1s to turn on/off the UPS.
SELECT button	➢ Mute the alarm in bypass/ battery mode: press and hold the button 2-10s in bypass/ battery mode. Reset once again. ➢ Mute all the alarm: press and hold the button more than 10s in AC/ bypass/ battery/ stanby/ inverter mode. Reset once again. ➢ Battery test: Press and hold the button 2-10s in AC mode.
LCD panel	➢ Show the UPS working status and the warning message.
Green LED	➢ Inverter status
Yellow LED	➢ Inverter status in bypass/ battery mode or warning message.
Red LED	➢ Fault. The fault message can be showed on LCD.

3.2 LCD display:



The LCD has six parts as following:

① Numerical display: show voltage, frequency, battery capacity, load capacity and fault code

② Configuration: show the connection configuration of part①

③ Load capacity icon: show the level of the load capacity

④ Battery capacity icon: show the level of the battery capacity

⑤ Alarm icon: when the UPS is abnormal the icon appearance

⑥ Display area: display UPS work mode area, "on line" while in AC mode, "on batt" while in battery mode, "on bps" while in bypass mode.

4 Operation

4.1 Start up

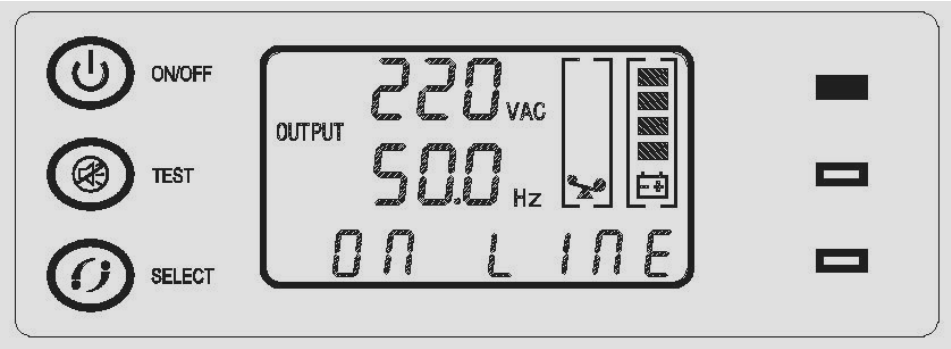
⚠ Attention: The battery is fully charged before delivery. However storage and transportation will inevitably cause some charge loss. Therefore, it's advisable to charge the battery for 10 hours before using it, to ensure adequate battery autonomy.

Note: ▬ means LED lighting, and ▭ means LED is faded.

- **Turn on the UPS with utility power supply (in AC mode)**

After power supply is connected correctly, set the input breaker at "ON" position. Then press and hold the "ON" button more than 2s to turn on the UPS, at this time self-test is running (If the UPS is in normal operation, it will show full screens one by one). The basic information of UPS can be showed on LCD panel.

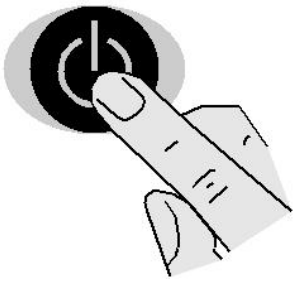
Work status showed on LCD panel as follwing (in AC mode):



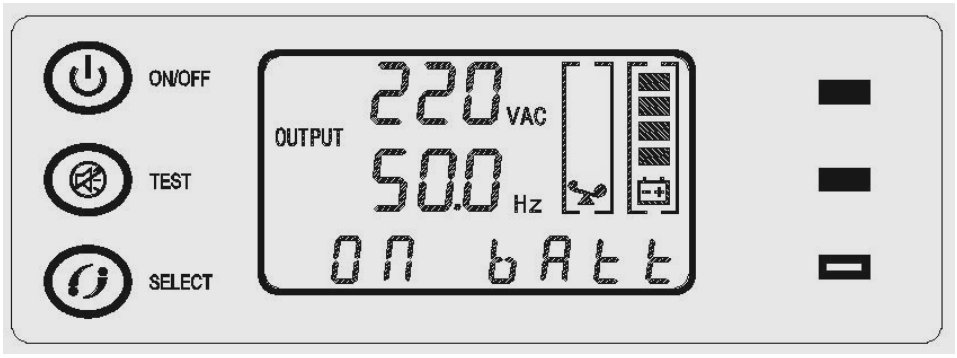
⚠ Attention: If the utility power is abnormal, the UPS will operate in Battery mode without interruption.

- **Turn on the UPS without utility power supply (in Battery mode)**

Press down the **"**ON**"** button over 2 s to start the UPS (connect the external battery first for the long backup time models).



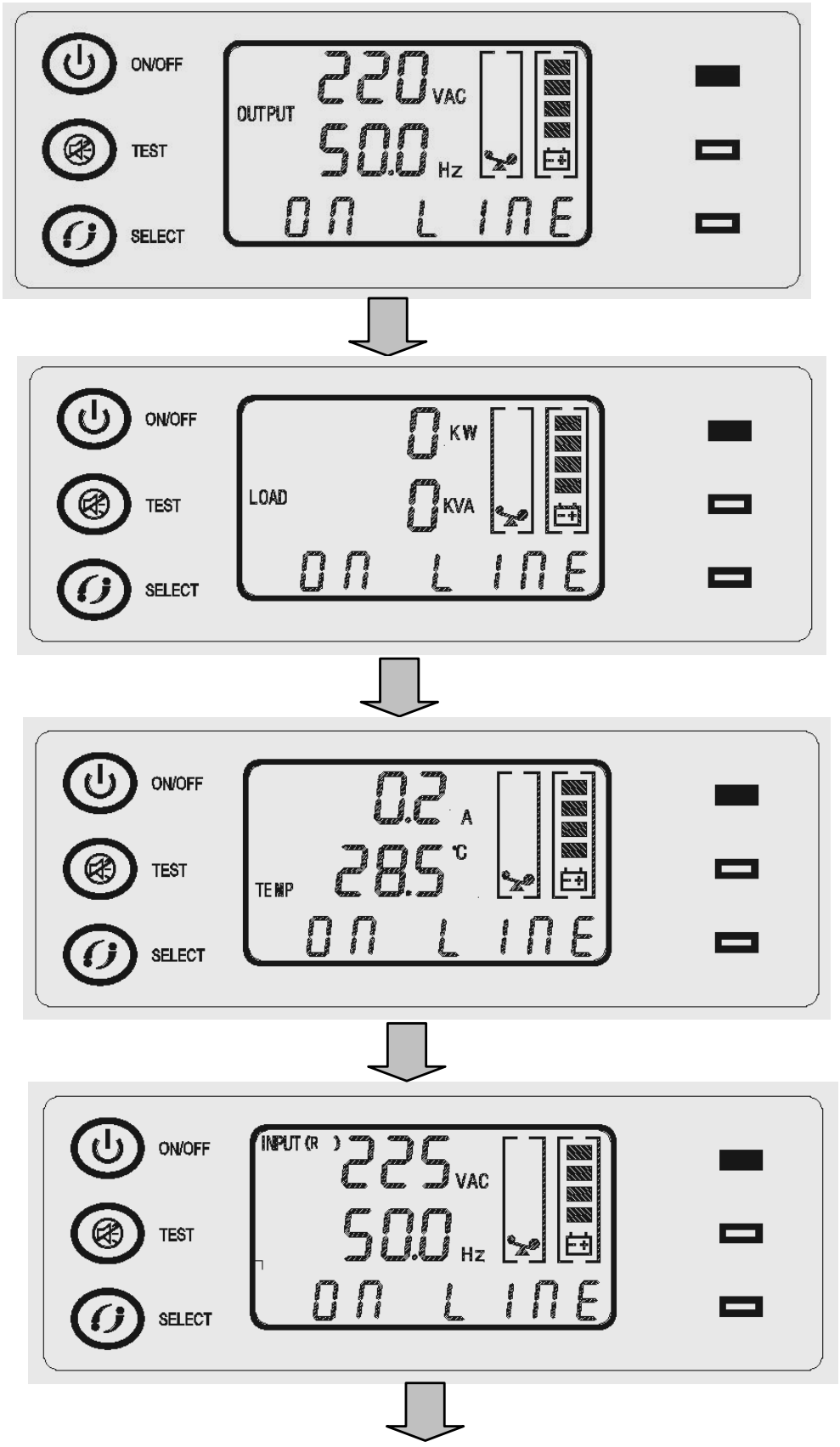
1) UPS start up in battery mode, LCD shows the main message in battery mode，UPS power to the load by battery.

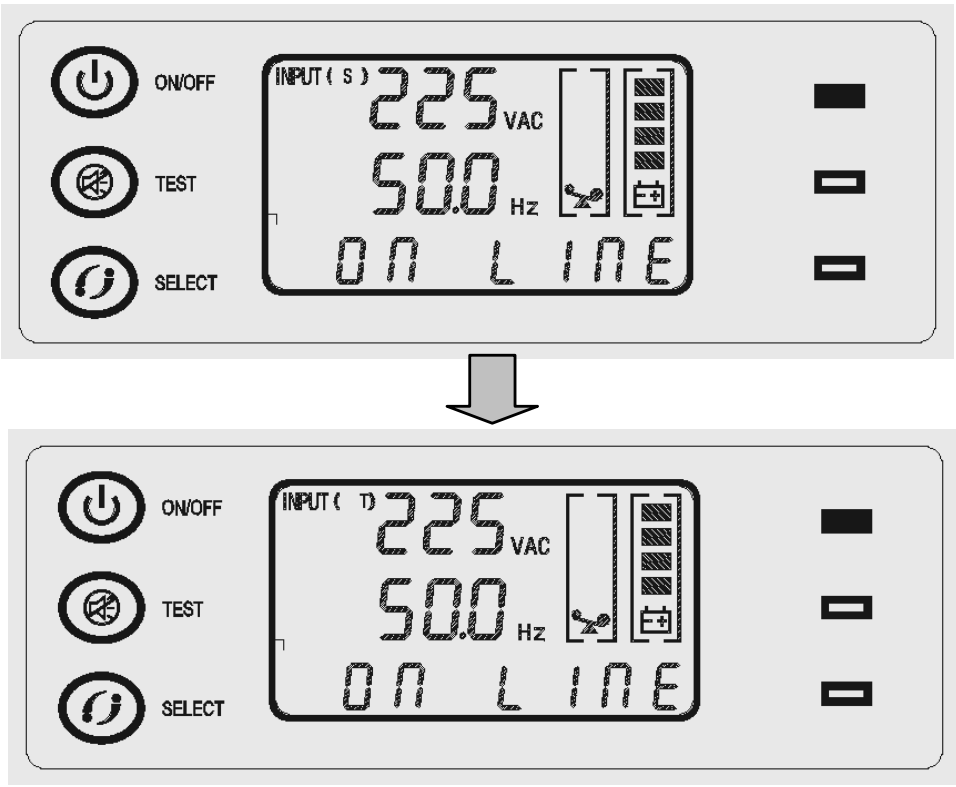


2) While in battery mode, the buzzer will beep every 4s. Mote the alarm referring to **Function of SELECT button.**

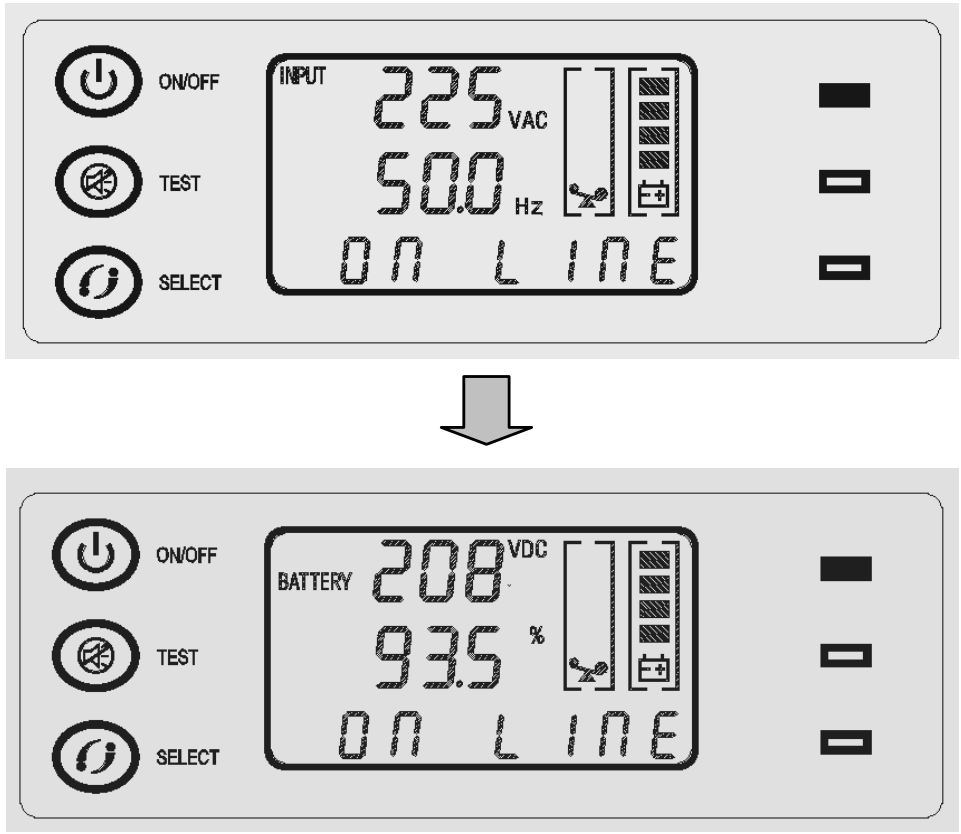
- **LCD display after turning on the UPS**

With the down button, input & output and other message can be showed on LCD. Shows while in AC mode as following:



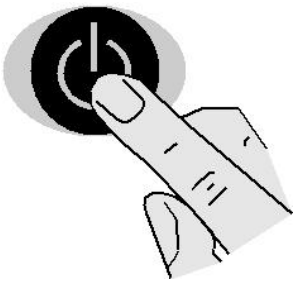


XPC11 series only display INPUT as following:

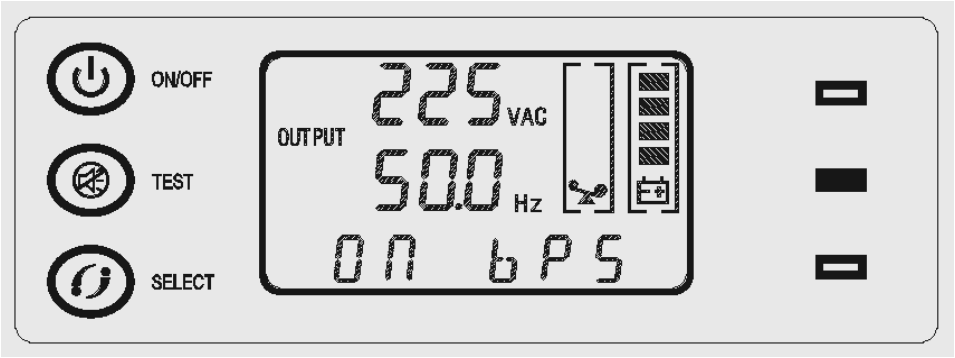


4.2 Shut down

- Press and hold the "OFF" button over 2s, the UPS would be shut down.



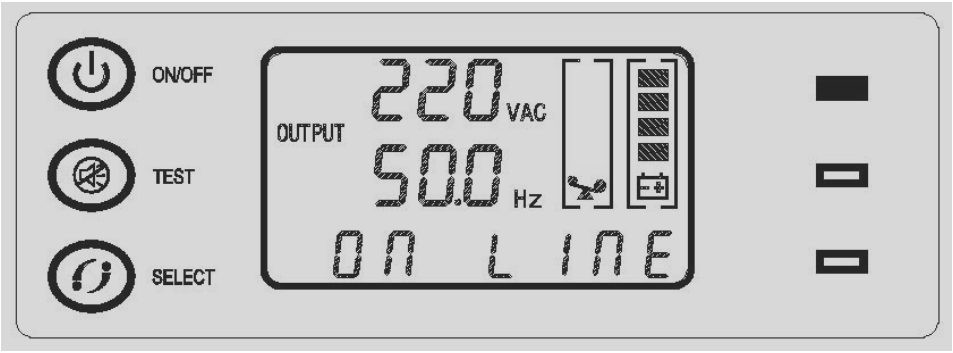
- After shutting down, the UPS is still in bypass mode and the Yellow LED is lighting.



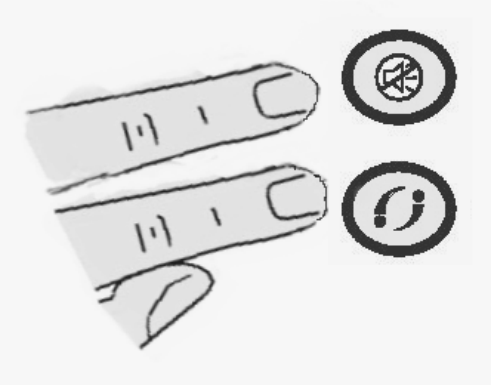
- While in bypass mode, the buzzer will beep every 2 minutes. Please press TEST button more than 2 seconds.
- Cut off AC power, then the UPS will be without output.

4.3 Charge current setting (only for long backup model)

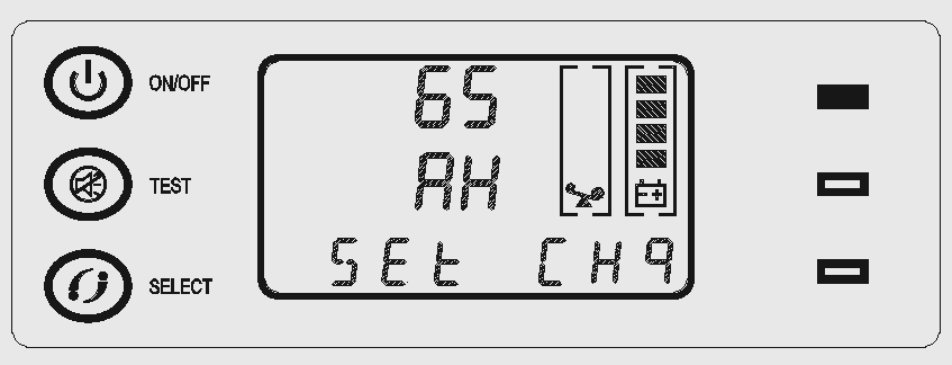
- Connect to the AC Power, turn on breaker, then press and hold the "ON" button more than 2s to start the UPS. UPS work on line mode and the LCD display as following:



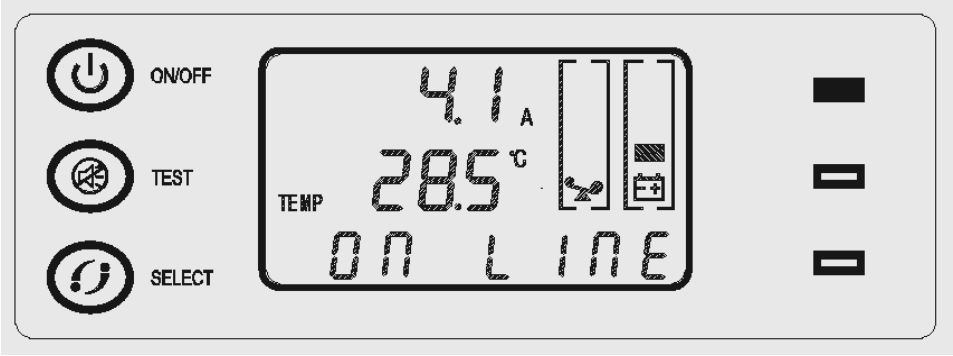
- At the same time press the SELECT and down/up button and hold more than 2s, the settings will be displayed on LCD panel.



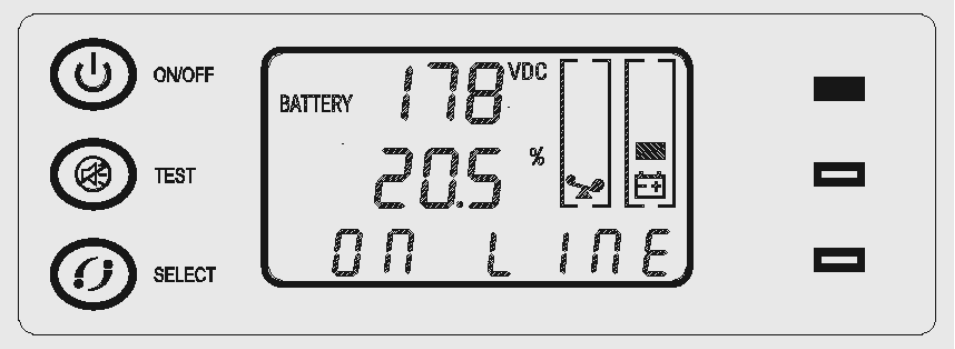
1) The first row is battery capacity with six types: 33AH, 45AH, 55AH, 65AH, 70AH and 100AH. Select with up/down button and choice the similar if there is no your type. Choice 100AH when with the capacity of battery over 100AH.



2) After selection of suitable capacity, press and hold SELECT button more than 3s to exit out of the setting interface. At the same time, the charging is according to the set methods. Press the SELECT button to flip through parameters, and the current charging current and voltage will be showed as follows:



Interface of charging current



Interface of charging voltage

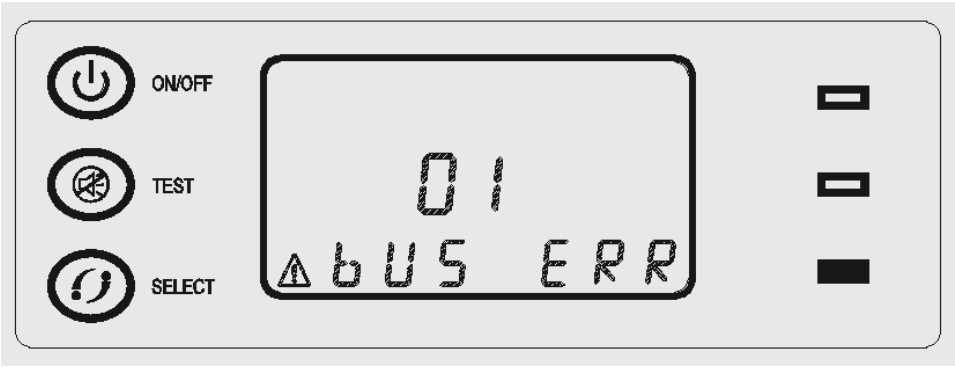
3) Press and hold on/off button more than 2s, the UPS shut down and save the settings. When power on UPS next time, UPS will charge the battery according to the last time saved settings.
4) The setting interface is available in AC mode, battery mode, bypass mode.

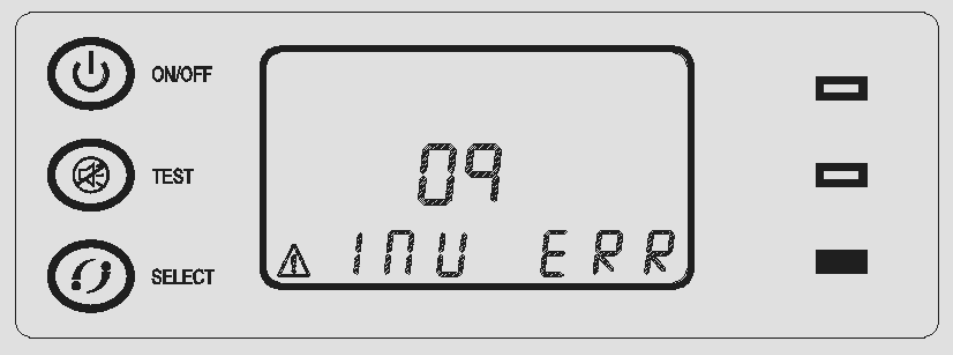
5 Battery Maintenance

- The UPS requires very little maintenance. Built-in batteries are sealed, maintenance-free and just always be charging for the expected life. When connecting to the utility power, regardless of whether the UPS is on, the batteries are charged all the time with protection for overcharge and over discharge by the UPS.
- If the UPS will remain idle for a long period, it should be charged every 4-6 months; When in high temperature, the batteries should be charged and discharged every 2 months, and the charging time should be more than 12 hours.
- Normally, the serve time of batteries is 3-5 years. Should you detect a problem, it’s demand for an early replacement and the replacement may be carried out only by professional personnel.
- When replace the batteries, install the same number and same type of batteries.
- The replacement of single battery is deprecated. The whole replacement should be observed the supplier’s instruction.
- Normally (supplied by the batteries rarely), the batteries should be charged and discharged every 4-6 months. Keep to be charged when discharged to shout down of UPS and the standard charging time should be more than 12 hours.

6 Trouble Shooting

If the Alarm icon is on and the LCD shows fault code, it indicate that the operation is abnormal. Please follow the **"**troubleshooting table**"** to eliminate the trouble. Fault menu as follows:





According to the above message, the UPS is in fault status turn to bypass mode.

If the UPS system does not operate correctly, please solve the problem by using the table below.

Fault	Cause	Correction
Fault code: 23, Alarm beeps continuously	Over temperature inside of UPS	Check over-load, fans, room temperature. Notify dealer when shuting down for 10 minutes doesn't work.
Fault code: 9, Alarm beeps continuously	Short circuit occurs on the UPS output	Check output wiring and if connected devices are in short circuit status. Notify the dealer.
"INPUT" flash on LCD display	Mains voltage and frequency go out of input range	In battery mode now, save the data and close the application, check the input voltage and input frequency.
Fault code: 22, Alarm beeps continuously	Over load/ load fault	Remove excess loads from UPS output. Check if the load is normal.
"CHG ERR" flash on LCD display	Charger failure	Notify the dealer.
"FAN ERR" flash on LCD display	Fan failure	Check if the fan is stuck. Clean up dust.
Capacity of battery flash on LCD display	Battery low	Check if the batteries are normal, replace when the batteries destroy. Check if the battery switch "ON".

AC can't go to UPS	Input switch "OFF"	Set the input switch "ON"
Battery backup time is shorter than nominal value	Batteries are not fully charged	Charge the batteries at least 10 hours and then check capacity. If the problem still persists, consult your dealer.
	UPS over load	Remove excess loads from UPS output.
	Batteries defect	Contact your dealer to replace the battery.
UPS could not started	Too short time for holding the button	Press and hold the on/off button more than 2s.
	Disconnect the batteries/ start with load and low battery voltage	Connect the batteries and charge batteries with low voltage before power on.
	Failure	Notify the dealer.

Attention: Fault code please refer to "Signification of Fault code".

Maintenance service should be provided with the following information:

1) UPS MODEL NO.
2) UPS SERIAL NO.
3) The date fault occurs
4) The explanation of the fault (display of LCD/ LED, voice, electric power, load and batteries for long backup model)

7 Signification of Fault code

Fault code	Signification	Correction
1	BUS soft start error	Please notify the dealer.
2	BUS high voltage	Please notify the dealer.
3	BUS low voltage	Please notify the dealer.
4	BUS imbalance	Please notify the dealer.
5	Bus short circuit	Please notify the dealer.
6	Inverter soft start over time	Please notify the dealer.
7	Inverter high voltage	Please notify the dealer.
8	Inverter low voltage	Please notify the dealer.
9	Output short circuit	Please notify the dealer.
17	Output negative power	Please notify the dealer.
21	Current imbalance	Please notify the dealer.
22	Over load	Remove excess loads from UPS output. Check if the load is normal.
23	Over temperature	Check over-load, fans, room temperature. Notify dealer when shuting down for 10 minutes doesn't work.
24	Inverter and relay can't be closed	Check if short circuit and notify the dealer.
25	Inverter and relay can't be separated	Check if short circuit and notify the dealer.
26	Utility power SCR fault	Please notify the dealer.
29	Rectifier fault	Please notify the dealer.
32	Disconnection of parallel-communication	Check the line of communication.
34	CAN communication fault	Please notify the dealer.
35	Synchronization signal fault	Please notify the dealer.
36	Auxiliary power fault	Please notify the dealer.
42	Input fuse open	Please notify the dealer.
55	NTC fault	Please notify the dealer.
57	Battery fault	Please notify the dealer.
59	Battery over charge fault	Please notify the dealer.

8 JFY-tech Contact Information

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